

Release notes for ENDF/B Development p-001_H_002
evaluation

ENDF
B-VII.dev

March 3, 2017

- checkr Warnings:

1. A previous error halted parsing of the current section
MAT= 128, MF= 1, MT=451 (1): Parsing stopped

```
ERROR(S) FOUND IN MAT= 128, MF= 1, MT=451
SECTION CANNOT BE CHECKED FROM SEQUENCE NUMBER      69 TO      76
```

- checkr Errors:

1. A variable is outside the allowed ENDF range
MAT= 128, MF= 1, MT=451 (0): Variable range

```
ERROR(S) FOUND IN MAT= 128, MF= 1, MT=451
MOD =      1 OUT OF RANGE      0 -      0      RECORD NUMBER      69
```

2. Missing a section in directory so your directory is messed up. This error will break everything else
MAT= 128, MF= 3, MT= 2 (0): Directory (b)

```
ERROR(S) FOUND IN MAT= 128, MF= 3, MT= 2
SECTION 3/ 2 NOT IN DIRECTORY      RECORD NUMBER      78
```

3. Missing a section in directory so your directory is messed up. This error will break everything else
MAT= 128, MF= 3, MT= 28 (0): Directory (b)

```
ERROR(S) FOUND IN MAT= 128, MF= 3, MT= 28
SECTION 3/ 28 NOT IN DIRECTORY      RECORD NUMBER      94
```

4. Missing a section in directory so your directory is messed up. This error will break everything else
MAT= 128, MF= 3, MT=102 (0): Directory (b)

```
ERROR(S) FOUND IN MAT= 128, MF= 3, MT=102
SECTION 3/102 NOT IN DIRECTORY      RECORD NUMBER      137
```

5. Missing a section in directory so your directory is messed up. This error will break everything else
MAT= 128, MF= 6, MT= 2 (0): Directory (b)

```
ERROR(S) FOUND IN MAT= 128, MF= 6, MT= 2
SECTION 6/ 2 NOT IN DIRECTORY      RECORD NUMBER      187
```

6. Missing a section in directory so your directory is messed up. This error will break everything else
MAT= 128, MF= 6, MT= 28 (0): Directory (b)

```
ERROR(S) FOUND IN MAT= 128, MF= 6, MT= 28
SECTION 6/ 28 NOT IN DIRECTORY      RECORD NUMBER      558
```

7. Missing a section in directory so your directory is messed up. This error will break everything else
MAT= 128, MF= 6, MT=102 (0): Directory (b)

ERROR(S) FOUND IN MAT= 128, MF= 6, MT=102
SECTION 6/102 NOT IN DIRECTORY

RECORD NUMBER 568

- **fizcon** Errors:

1. The mass field (AWI) is incorrectly set.
MAT= 128, MF= 1, MT=451 (1): Bad mass

ERROR(S) FOUND IN MAT= 128, MF= 1, MT=451
AWI SHOULD BE SET TO 9.98623E-01

2. Reaction can't use 2-body kinematics
MAT= 128, MF= 6, MT=102 (1): No 2-body

ERROR(S) FOUND IN MAT= 128, MF= 6, MT=102
DISCRETE 2-BODY LAW NOT PERMITTED FOR MT= 102

- **linear** Errors:

1. Negative cross section found
0: Neg. Sig(E)

```
Linearize ENDF/B Cross Sections (LINEAR 2015-1)
-----
Retrieval Criteria----- MAT
Monitor Mode----- Off
Minimum Cross Section----- 1.0000E-10 (Default Option)
... [43 more lines]
```

- **fudge-4.0** Warnings:

1. Found an invalid distribution for this type of reaction
reaction label 2: He3 + photon / Product: photon / Distribution: (Error # 0): Invalid dist.

WARNING: uncorrelated is not a valid distribution component for 2-body reaction

- **fudge-4.0** Errors:

1. Tabulated threshold below calculated threshold!
reaction label 1: n + H1[multiplicity:'2'] / Cross section: (Error # 0): Coulomb_threshold_mismatch

WARNING: Tabulated threshold 3337123. eV below calculated threshold 3337728.489269687 eV!

2. Recoil distribution type specified, but recoil partner has unsupported distribution
reaction label 2: He3 + photon / Product: He3 / Distribution: / angularTwoBody - recoil: (Error # 0): Bad recoil

WARNING: Recoil distribution type specified, but recoil partner has unsupported distribution type!